

MNRD Warden HOTLINE

Call 715-682-7123 Ext. 1560

The Warden Hotline provides the tribal membership with the opportunity to confidentially report suspected wildlife, recreational and environmental violations.

These violations may include fishing, or hunting out of season, deposit of harmful substances in lakes or rivers or illegal storage or disposal of hazardous waste. All these violations seriously affect the natural resources of our reservation.

Information received on this line will be relayed to a Mashkiiziibii Conservation Warden for investigation. You don't have to leave your name when reporting a violation. However, it is often helpful to an investigation if a Conservation Warden can follow-up on your report to verify essential facts. If you provide, your identity and any information that may identify you, that information will be protected and kept confidential.

If response is needed immediately please feel free to call or email one of the following Wardens:

- Brad Bigboy** 715-292-7822 chiefwarden@badriver-nsn.gov
Stanlee Kmiecik 715-292-1902 warden@badriver-nsn.gov
Tim Oja 715-979-1777 brnrwarden@badriver-nsn.gov

Helpful info when reporting a violation

Who is the violator? Describe the people, including their physical description and clothing

What is the violation?

Where did this violation take place? (be as specific as possible)

When did this occur?

If possible, please take pictures, and license plate numbers, anything to help identify the suspects.



Mashkiiziibii Natural Resources Department

72682 Maple Street
PO Box 39
Odanah, WI, 54806

Phone: 715-682-7123
Fax: 715-682-7118
Email: NRDO outreach@badriver-nsn.gov

~MISSION STATEMENT~

The Department strives for resource management which both conserves the natural resources for the future generations and provide for the needs of the present. The departments existence reflects the importance the Bad River Tribe places on its right and ability to exercise sovereignty, self-determination and self-regulation in the area of natural resource management.

We're on the Web!
Visit www.badriver-nsn.gov



Mashkiiziibii Natural Resource

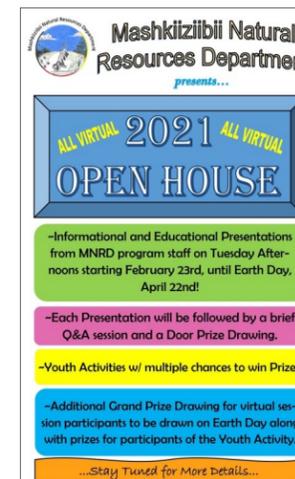
COMMON GROUND

2021 FALL EDITION

MNRD's 2021 Virtual Open House is a Success!

Jessica Strand, Environmental Specialist - environmental@badriver-nsn.gov

The COVID-19 pandemic has forced us to grow as an organization and change our Biennial Open House event from in-person to virtual in order to keep things as safe as possible for staff and participants. Unfortunately, this switch did not lead to as many opportunities for our partnering agencies to present information, but it really allowed MNRD to showcase a subset of projects that are staff are working on and gain feedback from the community on projects that were being proposed or courses of



action being taken. And anytime that MNRD staff can have such a dialogue with the community we serve, is a success in my book. (Plus, we were able to give away some fantastic prizes to those that participated!)

Virtual Sessions

From February 23 to April 22, 2021 we held weekly virtual sessions every Tuesday with hour-long presentations in the afternoon with sometimes a second presentation in

...continued on page 7...

Special points of interest:

- Not So New Staff Introduction
- Climate Change Update
- Air Quality Safety as Winter Approaches
- 2021 Virtual Open House
- Sea Lamprey Treatment 2021
- Forever Chemicals
- MNRD Warden HOTLINE

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Forever Chemicals

Andrew Spychalla, Brownfield Specialist, MNRD: brownfields@badriver-nsn.gov

Per- and polyfluoroalkyl substances (PFAS) are man-made chemicals which are used in industries and goods ranging from: paper packaging, nonstick cookware or weather-resistant-clothing, carpeting, and various other plastic and rubber materials. These chemicals have gone rela-



...Continued on page 4

Bad River Sea Lamprey Treatment 2021

Jacob Rodmaker; Fisheries Specialist fisheryspecialist@badriver-nsn.gov

The United States Fish and Wildlife Service (USFWS) is treating the Bad River system for the removal of larval Sea Lamprey (Young of year lamprey up to transformer phase lamprey) using TFM. This happens every three years, with few exceptions, since the 1960's. The last treatment was in 2017, and the treatment scheduled for last year was canceled due to Covid-19 travel restrictions. The scheduled time for treatment this year is September 14-23. If treatment is not fully executed in that allotted time, USFWS is to

come back to complete the treatment between September 28 -October 6. Factors that could cause the treatment to not be completed in the first timeframe include, but are not limited to low water levels and weather events. Tribal Council approved this work during the April special meeting. MNRD staff will be assisting USFWS in collecting water samples and monitoring for nontarget mortalities. If you happen to see USFWS members out and you have questions they are more than welcome to answer your questions. If you do not feel comfortable asking them, feel free to contact Jacob Rodmaker; Fisheries Specialist via email fisheryspecialist@badriver-nsn.gov or phone (715)-685-7840 ext 1552.



Figure 1: 2021 Treatment Map



Figure 2: Larval Sea Lamprey

PUBLIC NOTICE

Clean Water Act, Section 401 Certifications – Enbridge Proposals at the Bad River Meander: Overland Turf Reinforcement Matting Project, Timber Revetment Project, and Horizontal Direction Drilling Project

A public hearing will be held on September 27, 2021 @ 6:00 pm.

The Bad River (Mashkiizibii) is undergoing the natural process of lateral migration, or meandering. At the point where Line 5 crosses under Mashkiizibii, this migration has resulted in a tight meander. Currently, the river channel is moving to the east as the upstream riverbank and the downstream riverbank move closer together. During periods of overland flow at the Bad River meander, such as during high-flow events, overland channels form across the meander neck.

The Army Corps of Engineers is reviewing two of these proposals (Overland TRM and HDD) under the Utility Regional General Permit and the third proposal (Timber Revetment) under Nationwide Permit 13, Bank Stabilization. Refer to the table on page 2 for summaries of the proposals.

In accordance with Section 401 of the Clean Water Act (CWA), the Bad River Band of Lake Superior Tribe of Chippewa Indians is evaluating the submitted materials to determine if there is reasonable assurance that the activities associated with the Army Corps of Engineers' authorizations will be consistent with relevant water quality considerations.

The Tribe seeks comments on its proposed CWA Section 401 Certifications of the Army Corps' authorizations for these projects. All comments are considered during the project review. Additional information may be obtained by contacting the Water Regulatory Specialist at (715) 979-1370 or WaterReg@badriver-nsn.gov. Written and oral comments will be accepted at the public hearing. Written comments may also be emailed or sent by US Mail to:

Lorrie Salawater, Water Regulatory Specialist
Mashkiizibii Natural Resources Department
P.O. Box 39
Odanah, WI 54861

Comment deadline is September 29, 2021.

Posted: August 10, 2021

Public hearing can be joined virtually via GO TO MEETING through either using the link below or calling into the phone number listed below: Public Hearing Enbridge Meander Projects
Mon, Sep 27, 2021, 6:00 PM (CDT) Please join my meeting from your computer, tablet or smartphone.
<https://global.gotomeeting.com/join/304090109> You can also dial in using your phone. United States: +1 (571) 317-3112
- One-touch: <tel:+15713173112,304090109#>

To View FULL PDF visit:
<http://www.badriver-nsn.gov/news/>

Takin Care of our Kin continued...

- Report any Ma'iingan sightings or track and scat from Ma'iingan to our Program

The Mashkiziibii wildlife program is focused on checking in on the reservation Ma'iingan packs by surveying for tracks, scat, and conducting howl surveys. If you've heard or seen signs of Ma'iingan please reach out to wildlife@badriver-nsn.gov to pool community knowledge about what our relative has been up to. Community members are also welcome to reach out to learn how to do howl for wolves and identify their tracks and sign.

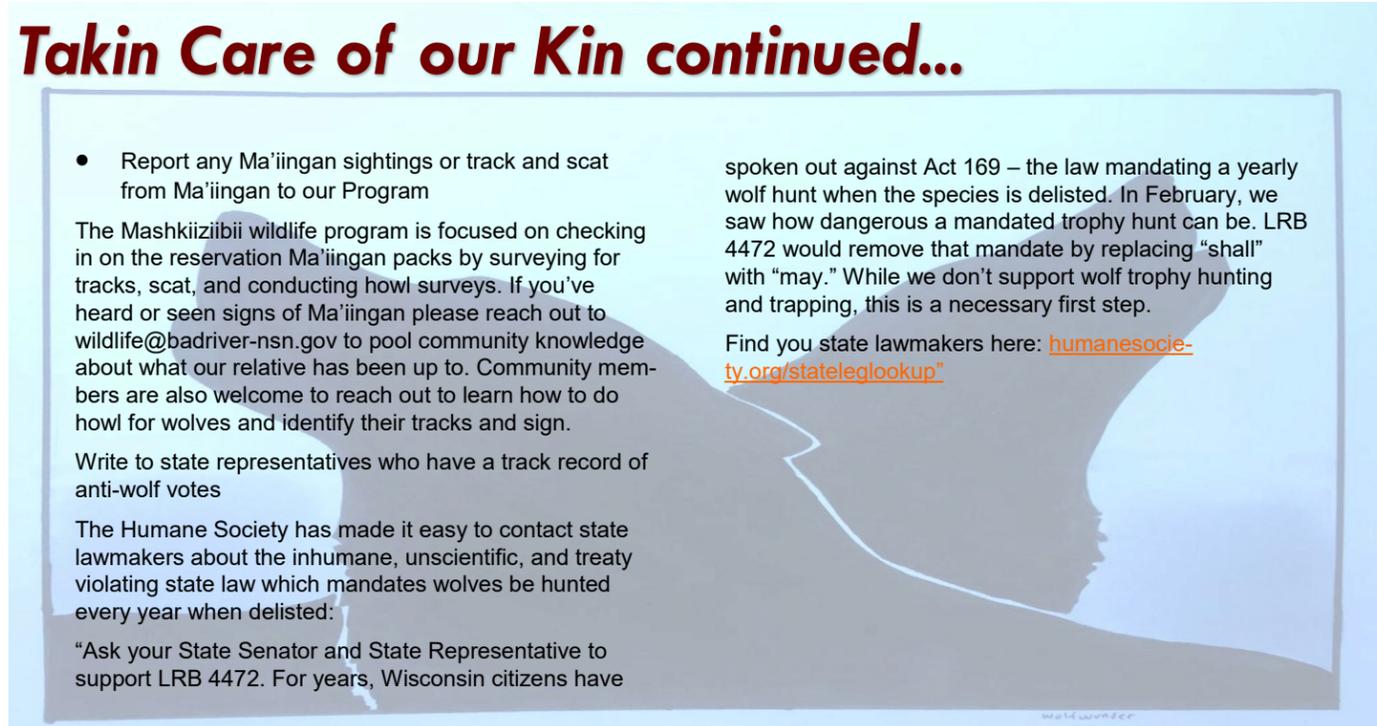
Write to state representatives who have a track record of anti-wolf votes

The Humane Society has made it easy to contact state lawmakers about the inhumane, unscientific, and treaty violating state law which mandates wolves be hunted every year when delisted:

"Ask your State Senator and State Representative to support LRB 4472. For years, Wisconsin citizens have

spoken out against Act 169 – the law mandating a yearly wolf hunt when the species is delisted. In February, we saw how dangerous a mandated trophy hunt can be. LRB 4472 would remove that mandate by replacing "shall" with "may." While we don't support wolf trophy hunting and trapping, this is a necessary first step.

Find you state lawmakers here: humanesociety.org/stateleglookup



Birch Hill Red Pine Thinning – Coming Soon!

By Gena Abramson, Forestry Specialist - Forester@badriver-nsn.gov

Boozhoo. If you live in or have visited the Birch Hill Community, you've surely noticed the orange paint on some of the red pine trees. Those trees will be the ones removed during the upcoming pine thinning. We've selected the trees voted "least likely to succeed" and marked those for removal.

We are also hoping to chip up the tops once the thinning is completed and the snow melts. This will involve putting the non-sellable branches through our department's chipper. Chipping will improve the look of the community while blanketing the forest floor with a thin



layer of mulch. Breaking down the bulk of the branches will allow for more moisture to be retained in the soil for the remaining trees, as well as a

The Birch Hill Pine Thinning is one of the 15 timber harvests in our Council Approved 3 Year Plan (2021-2023) and is one of the four harvests planned for the first year. Each year, we will try to implement strategies that diversify our forests and keep them as healthy as possible.

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Solar + Storage = Resiliency + Savings continued...

The Tribe is continuing to learn from the microgrids and have set up quarterly meetings to highlight actual savings, projected savings, microgrid responses to outages and any other issues that may have arisen in the previous quarter. These meeting will be important to make sure they are accomplishing the goals the Tribes has set for the microgrids and renewable energy.

Information will continue to be presented to the community and on the Ishkonige Nawadise Solar project and microgrids. Currently there is a kiosk located at the H&WC entry that allows for a visual of how the microgrids are operating. A webpage on the Tribe's website is also being developed to highlight the microgrids. If there are any questions about the microgrids or this project, feel free to contact Daniel Wiggins Jr at Air1@badriver-nsn.gov or 715-979-1486. Miigwech!



Picture 2: Kiosk located at the H&WC and shows all three microgrids along with current operations.

Solar + Storage = Resiliency + Savings

Daniel Wiggins, Air Quality/ Radon Tech, Air1@badriver-nsn.gov

In May of 2021 the Tribe commissioned the Ishkonige Nawadise Microgrid Solar project, which included the installation of over 500 kilowatts of solar and over 1,000 kilowatt hours of storage microgrids at three facilities: the Health and Wellness Center (H&WC), Chief Blackbird Administration Building, and Wastewater Treatment Plant (WWTP).

The project was built around resiliency after the 2016 Flood, specifically outages that affected the Odanah Community and

...continued on page 13...



Picture 1: Wastewater Treatment Plant Microgrid- Battery Storage is located directly in front followed by the solar array and WWTP building in the back.

Forever Chemicals continued...

tively un-studied in the past. In recent years however, these chemicals which are known to bio-accumulate or build up in the human body, giving them the name “forever chemicals,” started becoming recognized

as potentially hazardous to humans in various ways.

Some research indicates that high levels of PFAS may contribute to: decreased infant birth weights and general infertility in women, thyroid diseases, increased cholesterol, and decreased response to vaccines in children. This last potential effect is important now with the ongoing Covid-19 pandemic, as the scientific world is focused heavily on the research of both viruses and vaccines. PFAS effects on the immune system in humans relating to the reduction of infectious disease resistance has just begun being studied (<https://www.atsdr.cdc.gov/pfas/health-effects/index.html>). 50% of the exposure to PFAS is estimated to come from ingesting food or water containing these chemicals. Contaminated water sources, eating fish from contaminated bodies of water, and eating foods packaged in containers utilizing these chemicals are common points of entry into the human body.

Why Should I Care?
PFAS persist in the environment and the human body for long periods of time. Recent findings indicate that exposure to certain PFAS may have harmful health effects in people.

- certain types of cancers
- thyroid & heart issues
- developmental delays
- infertility & low birth weight

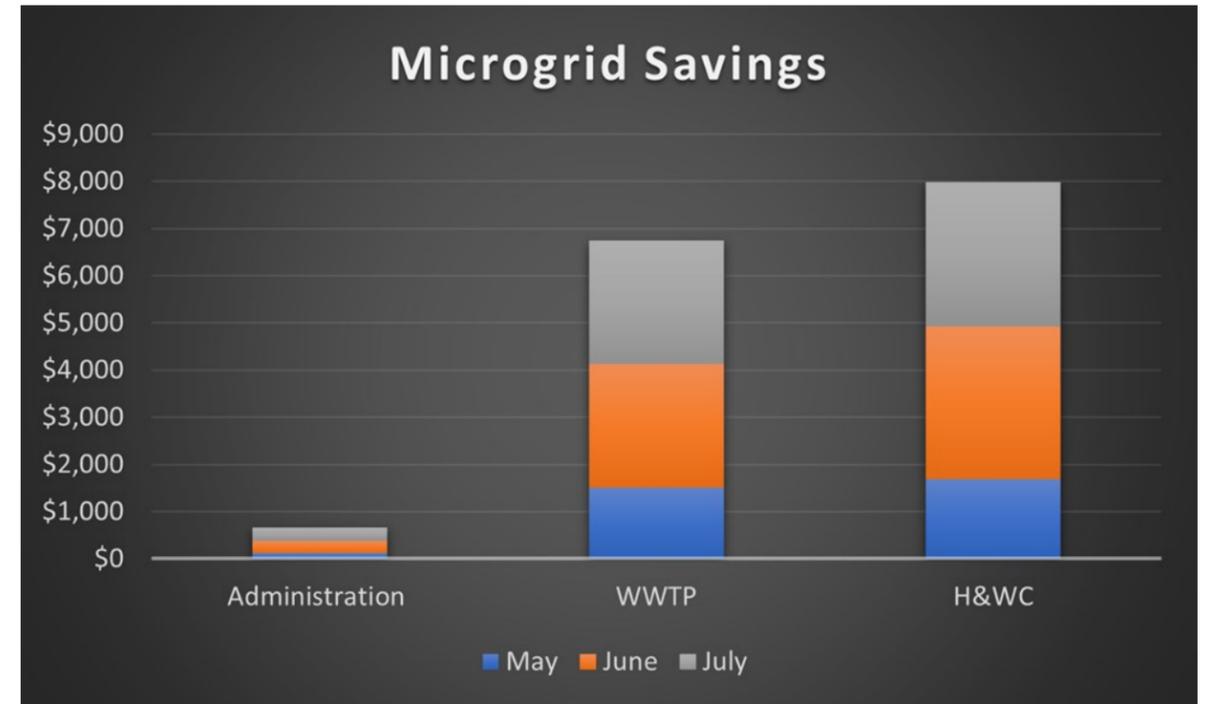
What You Can Do...

- Test Your Water**
dnr.wi.gov/u?q=177
- Check State Fish Advisories**
dnr.wi.gov/u?q=176
- Learn More About PFAS Health Risks**
dnr.wi.gov/u?q=175

Visit dnr.wi.gov, search PFAS.

In 2016, the Environmental Protection Agency (EPA) published health advisories for PFOA and PFOS of 70 parts per trillion in drinking water. In 2019, the EPA released a formal PFAS action plan to address these chemicals which led to the fiscal year 2021 omnibus bill that had \$300 million set aside for testing and regulation of these chemicals. In August 2021, EPA sent plans to Tribal leaders to continue sampling for these chemicals in Tribal Public Water Systems in both Minnesota and Wisconsin. This voluntary program will give Tribes data on the potential presence of these chemicals in community drinking water, and if needed, will assist in coordinating remediation activities of these systems. Tribes will, if allowing this sampling effort, receive results within 2 months of the sample collection date. Those dates are being scheduled throughout the rest of 2021.

Solar + Storage = Resiliency + Savings continued...



Graph 1: Microgrid savings can be seen for the months of May, June, and July.

the three facilities. Through post-flood emergency planning the Tribe identified critical infrastructure and developed an Emergency Response Plan along with measures to minimize impacts from disasters and other events. Emergency back-up and generators are key when addressing electrical outages.

As the Tribe continued through post-flood activities funding opportunities, specifically grants, were made available to the Tribe. In 2019 the Tribe was awarded funding on a \$2.2 million-dollar microgrid project, now called the Ishkonige Nawadide (In Catches Fire) Solar Microgrid Project.

This project was built around resiliency. The H&WC and WWTP Microgrids can island (or isolate) the entire building from the grid during an electrical outage. With support from the back-up generator at each facility the microgrids can provide emergency power for days, possibly weeks.

Although not the primary reason the microgrids also provide financial benefits, specifically in savings. When they are not providing emergency power, which is most of the time, they are offsetting electrical usage from Bayfield Electric Cooperative. This provides direct savings to each facility and can be seen in Graph 1. The three microgrids have provided around \$15,000 in savings from May to July. The H&WC is the larger of the three and has provided nearly \$8,000 in savings within the same time span.

Electrical outages have still been ongoing, but not in the duration as during the 2016 Flood. The microgrids are responding accordingly and providing back-up when needed and fortunately the longest outages have only been for a few minutes.

Climate Change continued...

warming and become more resilient to the inevitable changes in our climate. I am looking at the water distribution and how we can be more prepared for such events like the 2016 flood. It is not if this type of event will occur again it's when. Upgrading the culverts in poor condition and replacing undersized culverts is a step in the right direction to help improve resilience of the watershed. Any questions or comments I encourage you to contact me. Miigwetch!



Pine Thinning continued...

faster break-down of organic matter into the soil. This will be like a fertilizer to the remaining pine and oak.

Management for pine is different in some ways than it is for hardwoods. We thin pine trees for a number of reasons. Some of them include:

To create space for growth. The trees that remain after the sale will grow faster and healthier once the overstocked (crowded) stand is thinned.

To reduce the fuel load. Part of our Bad River Pre-Disaster Mitigation Plan indicates that the Birch Hill community is vulnerable to forest fire. Eventually, there will be more oak than pine, allowing for a safer forested community.

To reduce the likelihood of stressed (crowded) trees from becoming targets for insect infestation.

To allow more nutrients and moisture to nourish the existing trees.



If pine aren't managed, they become sick from being too crowded. This is evident by a small crown ratio. If the trees have branches and needles that encompass the top 1/3 of the tree, it's fairly healthy and will photosynthesize enough energy to live for a long time. If the trees get too crowded, the crowns will look like Q-tips, only having a very small area of branches and needles.

There are areas on the Bad River Forest that have these Q-tip looking pine trees. They're long overdue for thinning, and the entire stand is suffering. We hope to manage those pine stands relatively soon so that we can protect and expand our pine acres for many generations to come.

If you have any questions about the Birch Hill Pine Thinning or anything else related to forestry, please feel free to give me a call at 715-685-8929 or email me at Forester@badriver-nsn.gov.

Climate Change Program Update

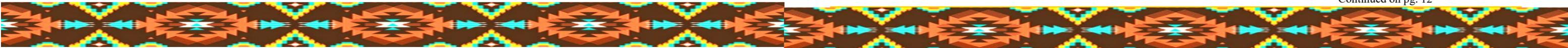
Mariah Hipsher, Climate Change Specialist - climate@badriver-nsn.gov

Wisconsin is warmer and wetter than we saw more than half a century ago. Temperatures have risen by approximately 2 degrees since the 1950's and are expected to warm between 2-7 degrees Fahrenheit by midcentury. The amount of rain and snowfall each year has increased, and extreme rainstorm events are becoming more common, according to updated climate projections from the Wisconsin Initiative on climate change impacts. Humans are responsible for these widespread and rapid changes in warming of the earth's atmosphere, water, and land.

Climate change is altering precipitation patterns around the world, bringing more frequent and severe storms and floods. These effects will only intensify in the future, increasing the risk of damage to water infrastructure, limiting our supplies, and causing greater impacts on watershed communities such as Bad River. As the Climate Change Specialist, I have been working this field season on collecting data for a culvert inventory within the reservation. You may have seen me standing on the side of the road looking broke down or lost over the past few



months but what I have been doing is gathering data such as size and condition along with many other factors on each individual culvert so we can use this information to assess increased flood risks as well as impacts on our water resources. Flooding has been an issue in recent years for Bad River residents; the 2016 flood even destroyed roads, bridges, utilities, and public infrastructure and made normal daily activities impossible. Living within this watershed we want to be able to adapt to the changes that are brought on by global



Ganawendan Ma'iingan: Taking care of our kin the wolf

Abi Fergus, Wildlife Specialist – wildlife@badriver-nsn.gov

This year has held a lot of grieving and anger around the violence that happens to our human, wolf, and water relatives at the hands of colonialism. The Bad River community has also taught me how to always find joy and laughter to keep going in a good way. Over the past few years, when the work gets hard opposing extractive and violent people and interests, coming together in community has been my source of healing. The pandemic requires us to take extra precautions to care for one another, but I see ways that we can continue to be in community and to bring about healing so we can honor our role in our ecosystems and care for nibi and aki as our elders have taught us.

Today I want to offer some positive actions community members can take to help protect Ma'iingan. Recently, the Biden administration backed the unprecedented Trump delisting of Ma'iingan. The State of Wisconsin plans to conduct another wolf hunt in the fall, citing state statute and following the decisions of the state Natural Resource Board. Still, we have time before November to stop the hunt or reduce harm to our relative Ma'iingan, who keeps chronic wasting disease out of the Waawaashkeshi herd and reduces overbrowsing by Waawaashkeshiwag to protect cool water systems. Ma'iingan helps protect all of our relations from disease and the increasing impacts of climate change.

Here are some ways for you to take action for Ma'iingan:

- Write social media posts and letters to the editor

Anti-wolf folks use a strategy where they



claim those who actually have to "deal" with living in wolf country don't want to co-exist with Ma'iingan. In reality, treaty territory overlaps with much of the core of Ma'iingan's habitat and social science surveys have shown a majority of people want to live with wolves. It is valuable to speak up on social media and by writing local papers to express how those of us who live with the wolf really feel. Need tips on how to write a letter?

<https://wiwolvesandwildlife.wordpress.com/how-to-write-a-letter-to-the-editor/>

- Follow and plug into wolf advocacy groups and their efforts

Locally, the advocacy group Friends of the Wisconsin Wolf and Wildlife regularly directs folks in how to advocate for Ma'iingan in addition to recently filing litigation against the state Natural Resources Board to stop the planned fall wolf hunt. You can follow them on Facebook and check out their website at

<https://wiwolvesandwildlife.wordpress.com/take-action/>

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PUBLIC NOTICE

[Service Line Agreement]

Northern States Power - Xcel Energy - on Pine Street Residential Lease

The Bad River Tribe is currently evaluating the proposed Right of Way and Environmental Review requirements and criteria described.

Under Bad River Tribal Court Code Section 6 – Chapter 422.05(C), a Public Comment period will be available on the proposed work and conditions. All comments are considered during the project review. Comments may include requesting a public hearing.

Project Summary; Background & Appendix:

Northern States Power is an applicant for a proposed project supplying natural gas to a Bad River Reservation Tribal Land location. The location is a residential lease site on Pine Street.

The Bad River Tribe's preliminary determination is that the proposed project meets the following Environmental Review categorical exclusion:

K. Activity that does not involve changes in the use of land and that is aligned with tribal interest

The 15-day public comment period for the proposed project begins September 15th, 2021 and ends October 1st, 2021.

Additional information may be obtained by contacting the Land Records In-Take Specialist. Written comments may be emailed or sent by US Mail:

Aurora L. Conley, Land Records In-Take Specialist
Mashkiizibii Natural Resources Department
P.O. Box 39, Odanah, WI 54861
(715) 682-7123 x1587
landrecords@badriver-nsn.gov

The comment deadline is October 1st, 2021.

Posted: 9/15/2021

To View Current Public Notices visit:
<http://www.badriver-nsn.gov/news/>

Mashkiizibii Natural Resources Department ANNUAL

Beach Clean-up Event



Thursday, September 30th
10AM - 2PM
Meet @ Waverly Beach

Pre-Registration is recommended but not required. Will have Registration available at meeting location for those who do not have access to the internet. Supplies will be provided.
Come Help Clean up our Beaches.

Pre-Register @ <https://adopt.greatlakes.org/s/find-a-cleanup>

Open House Continued...

the evening for a total of fourteen virtual sessions. Session topics ranged from the Piping Plover to Sea Lamprey Management to Private On-Site Wastewater Treatment System Program information to our 3-Year Forestry Plan. We even had an evening session focusing on providing information regarding Enbridge Energy Line 5 within the Reservation. While some of the session were attended more than others, each had some dialogue during the Question & Answer portion of the session and positive feedback from those who attended. All of the presentation that were recorded on the GoToMeeting platform are now available for viewing on our webpage for those of you who may have been interested in some of the topics but couldn't attend!

Participation

Over the course of the fourteen virtual sessions, we recorded 187 participants with many people logging or calling in for more than one session. Participants represented a range of individuals, including Bad River community members, other tribal and non-tribal community members, outside agencies (state, federal, local, and tribal), and educational organizations. The most well-attended presentation was that co-hosted by our Bakaan Ingoji Gaa-Ondaadag (Non-Local Beings) Program and our Manoomin Osh-kaabewis (Wild Rice Specialist) focusing on both Manoomin and Cattails out in the Kakagon and Bad River Sloughs Complex.

In addition to the virtual sessions, we had a separate youth activity to try to engage our younger audiences and get to know what they know about natural resources. The activity was for the youth to either draw a picture, snap a photo and create a caption, or write an essay based on one of numerous prompts they had to choose from (dependent upon age group). For example, youth between 9-13 were asked to take a photo answer a question and provide a caption for the photo; one of the questions was: "What is your favorite place outside of town?" We received two entries answering this question and ten entries overall. Youth entries can also be viewed on our website.

Prizes

Due to the generosity of many MNRD Programs we were able to give away some great prizes to those who participated in the Open House. Each virtual session had several door prizes given away at the end of each session and for each time a person participated in the Open House they earned another entry to the grand prize drawing the day after Earth Day. Door

prizes like a Stormy Kromer cap, cooler, vacuum sealer, tent, sleeping bag, a small generator, fishing equipment, manoomin, gardening equipment, and more! The Grand Prize drawing was a bundle of home and personal care products that focus on eliminating single-use plastics and included products from Grove, CleanCult, Ethique, and Ziptop. Each youth who submitted an entry for the youth activity won a prize, some of which included a backpack made from an upcycled Milwaukee Bucks jersey, toys made from recycled milk jugs, and some cool science sets.

To see recordings of the presentations, submissions from the youth activity, or to view the final list of who won what, please visit MNRD's Environmental page: Environmental – Bad River Tribe (badriver-nsn.gov).

Chi miigwech to all those who participated and made our Open House a success.

MNRD Open House

Youth Activities

General Youth Activity Rules:

- There are three different activities based on age categories:
 - Drawing Activity for youth that are 8-years-old or younger.
 - Photo and Caption Activity for youth that are 9- to 13-years-old.
 - Essay or Story Activity for youth that are 14- to 18-years-old.
- Each youth who participates will be entered to win a prize; the drawings will be held on Earth Day (April 22nd). **Limit is one submission per youth.**
- Each youth's entry will be incorporated into a slideshow and posted to MNRD's webpage and Facebook pages.
 - Only the youth's first name and age will be published with their entry.
- Entries can be email to Malita Smart at DNHReceipt@badriver-nsn.gov or submitted at the MNRD Office front window. **Entries must be submitted before 4:30 PM on Tuesday, April 20th to be entered into the prize drawings.**
- Please see next pages for specific rules for each activity.

14 to 18 Year Old Essay/Story Activity

14- to 18-Year-Old Essay/Story Activity
Please write a 750- to 1000-word story/essay that addresses one of the prompts below. **Parents/guardians should limit their help with this task to understanding the rules and reading in the submission—we want the answers to be in the youth's own words.**

When submitting the entry, please ensure that you include:
1) The youth's name, age, and contact information for youth or parent/guardian.
2) The question from the list below that the youth decided to answer with their essay/story.

Essay/Story Activity Prompts:

- Air** - Have you ever thought about air pollution in your life and after this presentation from the Air Office, will you think more about it? Describe how you feel and if you do anything different in your life to limit air pollution.
- Brownfields** - Do you feel it is important to take care of nature? Describe a time where you tidied up the land - helping mom/dad clean up litter on the road, recycling your cans and plastics, or even just mowing the yard. Why, in your words, is this important?
- Climate Change** - How do your actions impact the beautiful bird populations around your home and in your community? What is your relationship with birds and how do you think you can help protect and care for them?
- Conservation Enforcement** - Why is it important to be a responsible hunter, and know the land/area where you plan to hunt?
- Environmental** - Why is environmental stewardship for the seventh generation important to you? What do you do to support environmental stewardship?
- Fisheries** - What is the most meaningful fishing moment you had this year? It doesn't have to be the biggest fish. It could be the first fish you ever caught, or your first of a certain species, or the best fight you have ever had with a fish. You did not have to catch the fish. Someone else could have caught a fish and it was so hype it was better than you catching something.
- Forestry** - What is your favorite place outside of town?
- GIS** - Consider the concept of place. Is there a particular place or places you go to feel "at home"? What makes a place memorable or special to you?
- Manoomin** - Why is wild rice culturally significant to the Ojibway people?
- Non-Local Beings** - Non-local beings is another term for invasive species. Can you name any non-local beings? How are some ways that non-local beings can be harmful to the environment? What can we do to reduce the negative impacts of non-local beings?
- POWTS** - Can you tell me why you build mound systems at your home?
- Renewables** - What is clean energy? What clean energy do you use in your community?
- Water** - Tell me a story about a time when water made you feel peaceful.
- Wildlife** - Can you describe a memorable encounter you had with a wild animal? How did the interaction make you feel? How did the other animal seem to feel about your interaction? What do you learn about this animal?

9- to 13-Year-Old Photo and Caption Activity

9- to 13-Year-Old Photo and Caption Activity
Please take a photograph and provide a 2-3 sentence caption for it to answer one of the questions below. **Parents/guardians can help youth with this task but should allow the youth to decide the photographic subject and determine the caption.**

When submitting the entry, please ensure that you include:
1) The youth's name, age, and contact information for parent/guardian.
2) The 2-3 sentence caption.
3) The question from the list below that the youth decided to answer with their photo.

Photo Activity Prompts:

- Air** - Find something that creates pollution and grab a photo of it, tell us what is making the pollution and how you feel about what is in the photo.
- Brownfields** - What is your favorite place to hang out in the woods and why? Tree fort, lean-to, rock overlooking a creek?
- Climate Change** - What is a bird that visits the area around your house?
- Conservation Enforcement** - Take a photo of yourself on a snowmobile or ATV wearing appropriate safety gear. Include in your caption that age that you have to be to legally ride an ATV/UTV or snowmobile!
- Environmental** - What is one thing you do to protect the environment? Take a photo of someone doing it.
- Fisheries** - What type of fishing gear do you use to catch your favorite fish?
- Forestry** - What is your favorite place outside of town?
- GIS** - Pick any place you feel "at home." Looking outside, where is east from there? What can you see in that direction?
- Manoomin** - What type of tree did the Chippewa people use to build a canoe?
- Non-Local Beings** - What are some interesting adaptations that plants have to help them survive?
- POWTS** - Where does your wastewater go once it leaves your house? What can you tell us about it?
- Renewables** - How many electronics do you have plugged in within your bedroom?
- Water** - Snap a photo of your favorite water body and tell us what attracts you to it.
- Wildlife** - Who is an animal that you have a special connection to? They can be domesticated or wild. Describe your connection.

8-Year-Old and Younger Drawing Activity

8-Year-Old and Younger Drawing Activity
Please draw a picture to respond to one of the prompts below. Drawings can be done using any medium (crayons, color pencil, marker, etc.) but should be done on an 8.5x11 inch piece of paper. **Parents/guardians can help youth with this task but should let the youth pick their own question and do the drawing.**

When submitting the entry, please ensure that on the back of the drawing you include:
1) The youth's name, age, and contact information for parent/guardian.
2) The prompt from the list below that the youth decided to answer with their drawing.

Drawing Activity Prompts:

- Air** - Draw a picture of what bad air pollution looks like to you.
- Brownfields** - Draw a picture of your favorite plant/flower either in the home, or that grows around your home.
- Climate Change** - Draw a picture of your favorite Bineshinh (bird). (i.e. Migizi (English), masang (Ojib), mico-bineshinh (Cardinal))
- Conservation Enforcement** - Draw a picture of the safety device you should wear when riding in a boat.
- Environmental** - Draw a picture of what Earth Day means to you.
- Fisheries** - If you could have any fish in your fish tank, please draw what would it look like.
- Forestry** - Draw a picture of your favorite place outside of town.
- GIS** - Draw a map of your neighborhood looks like, including any landmarks you see.
- Manoomin** - Draw a picture of what we use to get the wild rice.
- Non-Local Beings** - If you could transform into any plant, which one would you choose? Draw a picture of yourself as a plant, including your plant superpower.
- POWTS** - Draw one thing you should not put into your sink or toilet bowl.
- Renewables** - Draw a picture to answer this riddle: What is round, you see almost every day and helps solar panels create power?
- THPO** - Draw a picture of four things you might see if you took a walk in the woods in Summer.
- Water** - When you think about water what do you think about? How many different forms of water can you think of that are on the reservation? Draw a picture for each form.
- Wildlife** - Who is your favorite animal? What values does that animal represent to you? Draw a picture of the animal and the values.

2021 Lake Superior Days Celebration

Berthea Olby, MNRD Outreach Coordinator- NRDO outreach@badriver-nsn.gov

This year's Lake Superior Days Celebration was a little different due to the ongoing Covid19 pandemic. Instead of doing our normal group gathering event with informational booths and activities, we provided Tribal Members and Employees Free Madeline Island Ferry Tickets. We did this in hopes that people would get out and enjoy our beautiful Lake Superior by visiting Madeline Island for a day, while still maintaining the social distancing guidelines.

We registered and dispersed approximately 150 round-trip vehicle passes and 385 round-trip passenger passes. The MNRD staff appreciates all the support and participation in these events, not only from the community, but the Council as well. We couldn't have done it without them. To stay up to date on Upcoming Events and

Information, Like Us on Facebook -OR- Check Out our Website @ badriver-nsn.gov
Miigwetch!

NOT SO NEW FACE IN GIS

Matt Eitrem, GIS Specialist - gis@badriver-nsn.gov

Boozhoo,

My name is Matt Eitrem, I am the new GIS Coordinator for the Tribe. I previously worked 12 years for the tribe until 2008 where I left to work for the City of Ashland for 13 years. In late June I returned to work for the tribe and am very happy to be back and excited to make a difference here at Bad River. I am a proud tribal member and have lived in the nearby city of Montreal for the last 20 plus years, where I have raised 4 beautiful children. My interests include spending time with my family, hunting, fishing, camping, and traveling the country on my motorcycle.

I bring with me to the tribe 25 years of experience working with GIS (Geographic Information Systems). I have expertise knowledge of the ESRI software suite of tools and applying



them to real world applications to help with decision support, infrastructure design and operations, and land management. I hope to use my knowledge and experience to help guide our decision makers in making the most informed decisions for the betterment of our community.

I am well versed in the trust relationship the federal government has with the tribe and the struggles of self-governance and sovereignty that the tribe has gone through. In my career alone, I would say we have come a long way since the days at the Old School in old Odanah and I am very proud of where the tribe is at today. I am a firm believer in the concept of "the democratization of information" and look forward to helping the tribal government to better serve its tribal membership, with this concept in mind, using information technology such as GIS. Miigwetch

Air Quality Safety as Winter Approaches

Nathan Kilger, Air Quality Specialist – air@badriver-nsn.gov

As summer fades away and we enter the colder seasons, now is the time to check over your house, get ready to turn the furnace on, and prepare for fall and winter storms.

- FURNACES**
 Having an annual furnace check by a certified professional is on the top of the fall season to-do list. Not only is it critical that the furnace will work when you need it the most but making sure there are not any safety issues with carbon monoxide (CO) leaks are vital for your family's safety. Too many people are victims of the odorless and colorless gas each winter.
- GENERATORS**
 Keeping carbon monoxide safety in mind, when storms bring down the power lines, generator safety is extremely important. Hundreds of people die every year in the United States from carbon monoxide poisoning. Operating a generator in an enclosed space, like an attached garage, is the most common cause.
- SMOKE ALARM BATTERIES**
 Now is also the perfect time to change the batteries in your smoke alarms and CO detectors. Both kinds of alarms will beep when batteries are getting low or some beep constantly when they reach the end of their lifespan. If your detectors are more than 10 years old, they're due to be swapped out for a new detector.
- EMERGENCY KITS**
 If fall and winter storms do interrupt our lives, it's very important to have emergency kits in your house and cars. The Federal Emergency Management Agency (FEMA) has a checklist started that you can tweak to fit your life:
<https://www.ready.gov/sites/default/files/documents/files/checklist3.pdf>

